

Cloud Natural Language API

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with **Qwiklabs** on **Google Cloud Platform Console**

API features

GCP NL API → Extract meaningful information from text

- **Syntax Analysis**

: Extract tokens and sentences, identify parts of speech (PoS) and create dependency parse trees for each sentence.

- **Entity Recognition**

: Identify entities and label by types such as person, organization, location, events, products and media.

- **Sentiment Analysis**

: Understand the overall sentiment expressed in a block of text.

- **Content Classification**

: Classify documents in predefined 700+ categories.

- **Multi-Language**

: Enables you to easily analyze text in multiple languages including English, Spanish, Japanese, Chinese (Simplified and Traditional), French, German, Italian, Korean and Portuguese.

- **Integrated REST API**

: Access via REST API. Text can be uploaded in the request or integrated with [Google Cloud Storage](#).

Steps

1. <Sign In>
2. <Activate Google Cloud Shell>
3. `gcloud auth list`
4. `gcloud config list project`

Create an API Key

Need key for access NL API

1. `export GOOGLE_CLOUD_PROJECT=$(gcloud config get-value core/project)` *→ Extract Current Project ID*

2. `gcloud iam service-accounts create my-natlang-sa --display-name "my natural language service account"` *→ Internal name of Service account*

3. `gcloud iam service-accounts keys create ~/key.json --iam-account my-natlang-sa@${GOOGLE_CLOUD_PROJECT}.iam.gserviceaccount.com` *→ IAM Service Account Name*
External name (optional)

4. `export GOOGLE_APPLICATION_CREDENTIALS="/home/USER/key.json"` *→ Service account Signin flag*

IAM: Identity and Access Management

Make an Entity Analysis Request

Request NL API

In NL API Features

gcloud ml language/analyze-entities/--content="Michelangelo Caravaggio, Italian painter, is known for 'The Calling of Saint Matthew'."

Result {
entity name-type
metadata, associated wiki URL
Salience (Range [0.1])
mentions